

(PRIOR ART)

FIG. 1

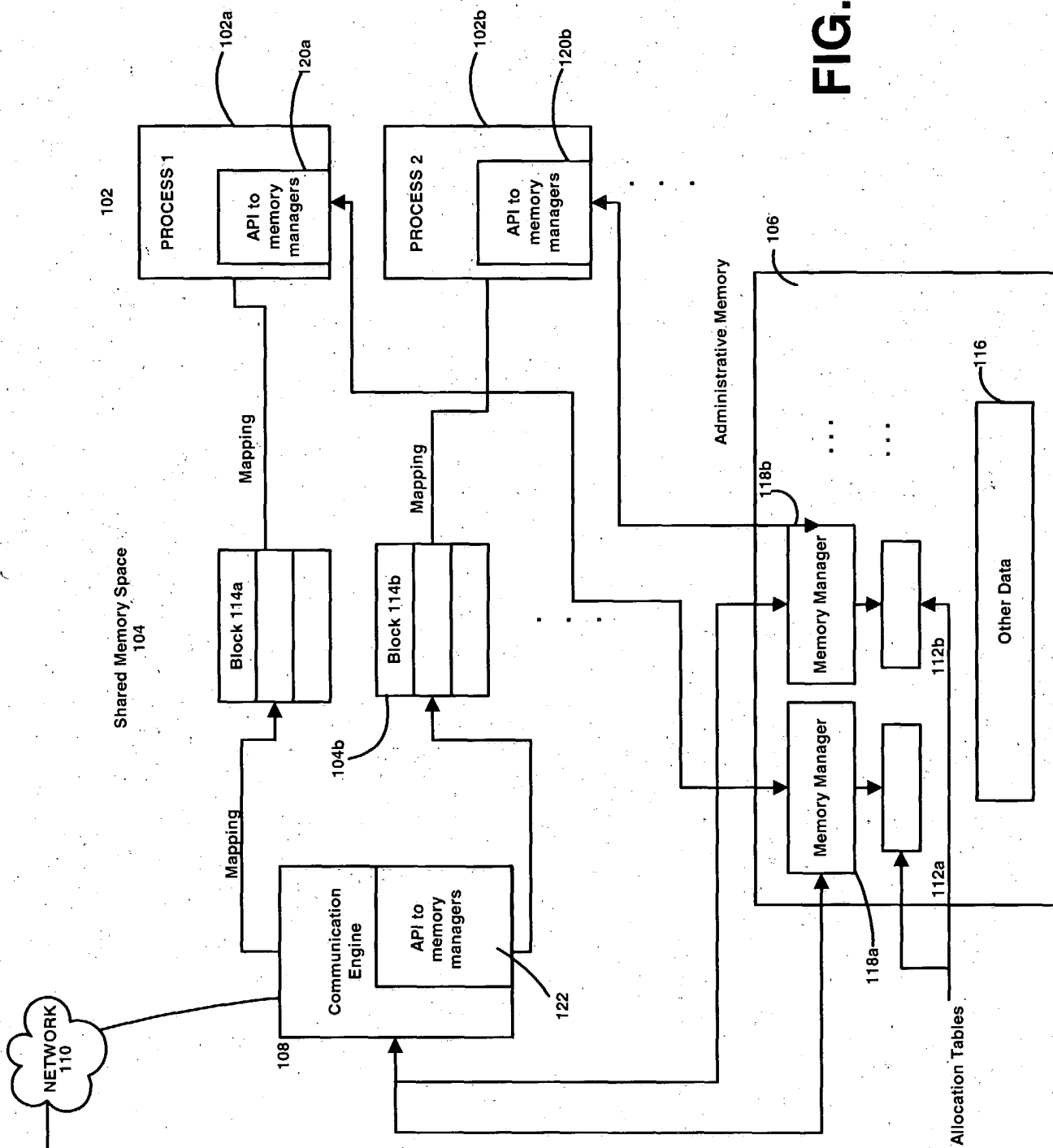


FIG. 2

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//this code registers the application using a unique identifying value and
//supplying a callback structure. Underneath the api creates the communication
//infrastructure and shared memory for caching
// this may only be done once within the application

Dc.RegisterSMPQ(bAppReg, //app id
&MessageCallBackHandler //callback functions
);

// this code creates a session with more or more remote computers. It sets the priority of the
//session, a debug string, timeouts and other various parameters
//a session can be created with N computers

hr = Dc.CreateSession(&pSess, //out param that will receive the session object
eSESSION_NORMAL_PRI, //session weighted priority
FALSE, //have the infrastructure periodically check the session liveness
L"3a047c3f-49da-4aa2-9ec9-a8dda18bc2b4",
2500, //timeout for the session creation
dwSReg, //
dcRemoteComputerNameList, //list of computers, and their quotas
1, //number of computer names in the RemoteComputerNameList
&vcResponse //what happened when trying to create the session
);

//creates a message on a specific session

Dc.CreateMessage(reinterpret_cast<IMessage*>(&pMsg), pSess);

//set the data on the message

pMsg->SetData(pbData, dwDataSize);

//send the message; specifying timeout, unicast or multicast, synchronous or async
//One or more response will be received on the callback function if ASYNCHRONOUS
//is supplied during registration; otherwise the call blocks until a response is received

Dc.Send(pMsg, 250, unicast, SYNCHRONOUS, pResponseMsg);

delete pMsg;

//the message object can be recycled if the application wishes
//Sending a file (whether 1 byte or N gigabytes) is straightforward, chunking and multiplexing
the //data may be handled by the messaging system:
//this line of code registers the application using their unique identifying value and
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2500, //timeout for the session creation
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1, //number of computer names in the RemoteComputerNameList
&vcResponse //what happened when trying to create the session
);

//Create a file message instead of a normal message
Dc.CreateFileMessage(&pFileMsg,
pSess,
TRUE);

// build the file name of the source file
wstrcpy(szFileName, L"c:\\TransferFrom\\trans");
wscat(szFileName, _itow(i, szBuffer, 10));
wscat(szFileName, L".txt");

//set the file name
pFileMsg->SetLocalPathAndFilename(szFileName);

//build the file name for the destination path (on a remote box)
wstrcpy(szFileName, L"c:\\TransferTo\\file");
wscat(szFileName, _itow(i, szBuffer, 10));

//set file name data (application can define and use any format it wishes)
//to send data pertinent for recreation on the remote process
pFileMsg->SetData(szFileName, (wcslen(szFileName) * 2), FALSE, FALSE);

//at this call the system will call back into the application asking
// for fixed sized chunks of data, using the messaging system
// to cache the data to go out through the communication channel.

Dc.Send(pFileMsg, INFINITE, unicast, SYNCHRONOUS, pResponseMsg);

delete pFileMsg;

```

FIG. 3

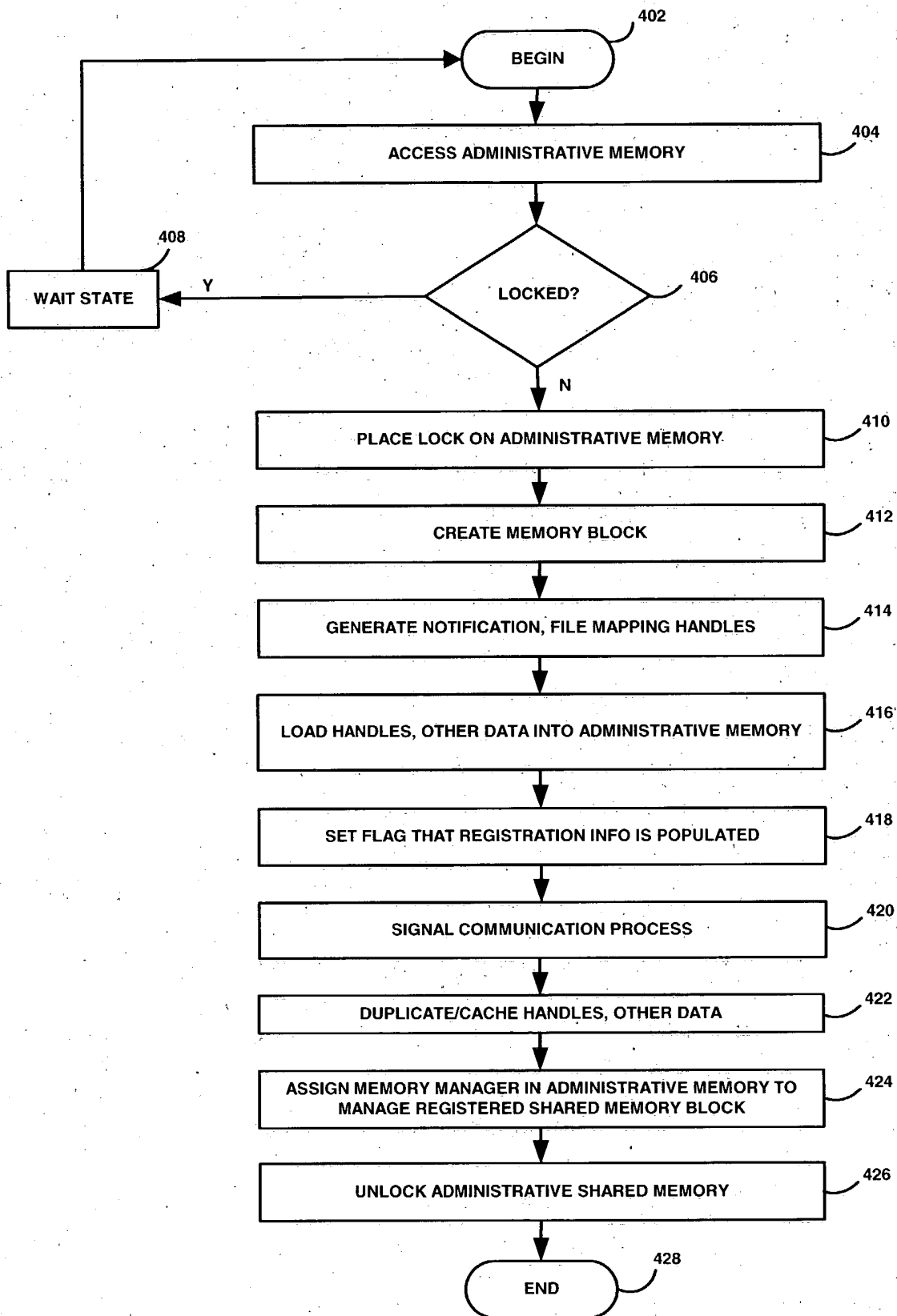


FIG. 4

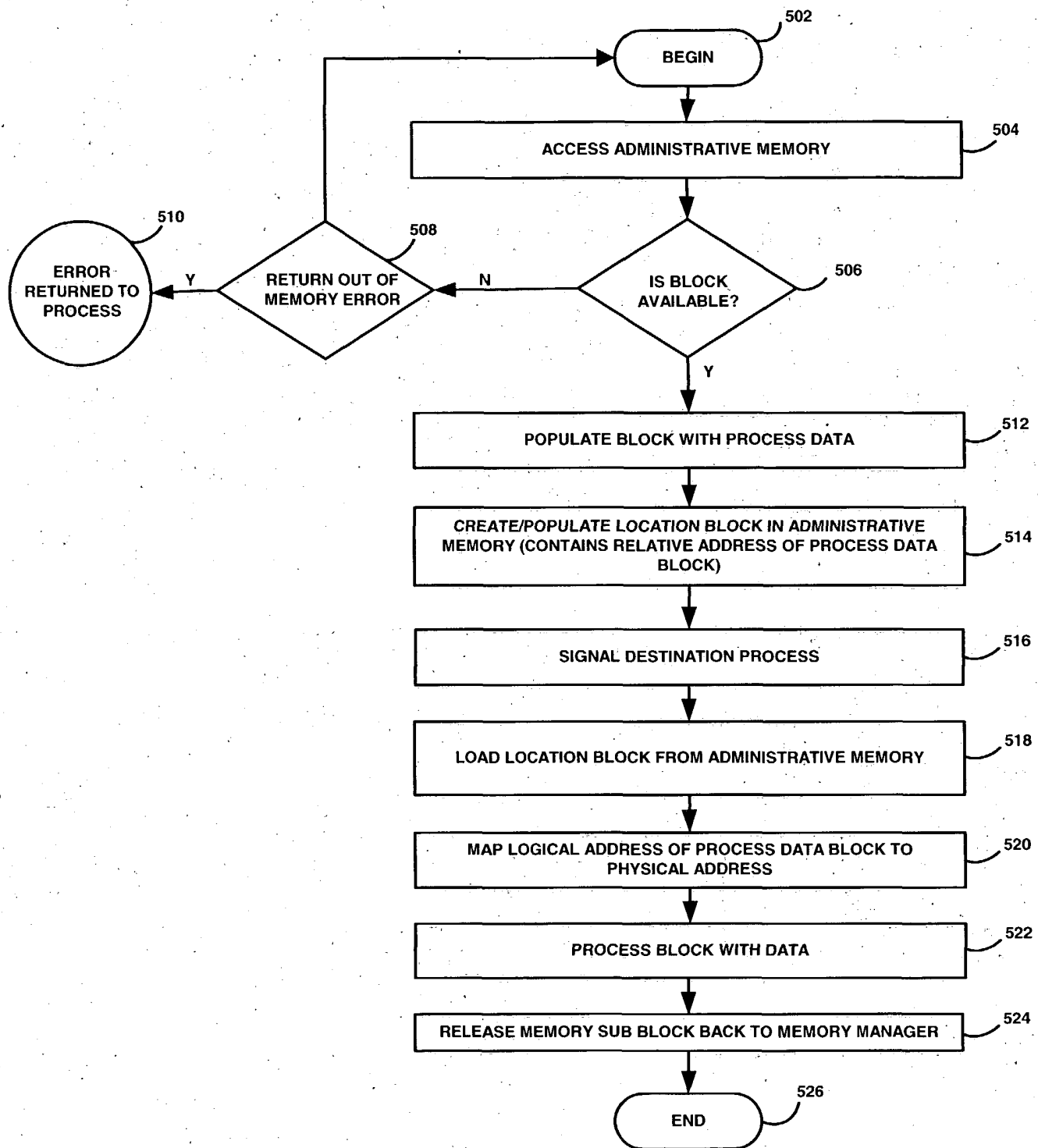


FIG. 5